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# STIC EIC2600

## Search Request Form

Today's Date: 4-30-01 Date Needed by: \_\_\_\_\_ RUSH – SPE signature \_\_\_\_\_

Your Name Vijay Shankar  
 AU 2629 Examiner # 70782  
 Room # KNX 10A29 Phone \_\_\_\_\_  
 Serial # 10/062758  
 Priority Date \_\_\_\_\_

Format for Search Results: PAPER EMAIL

Where have you searched?  
 EAST \_\_\_\_\_  
 NPL \_\_\_\_\_ where - IEEE, ACM, internet, other

DESCRIBE the scope of your request, such as the area of art, novelty, process or method if applicable. Specify the concepts, synonyms, keywords, acronyms, or definitions and the relationship of the concepts to each other. Please attach a copy of the background, abstract, and pertinent claims of the application. **ONLY specifying CLAIM 1 is not enough.**

Litigation

4025,823

STIC Searcher Kimberly Johnson Phone 2-4235  
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 OTHER 30





Query/Command : prt max legalall

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1/1 FAMPAT - @QUESTEL-ORBIT - image

**FAN** - 20062980086012

**PN** -  JP10070734 A 19980310 [JP10070734]  
 US6025823 A 20000215 [US6025823]  
KR100258524 B1 20000615 [KR100258524]  
JP3178660 B2 20010625 [JP3178660]

**TI** - Color curve control circuit and method

**PA** - SAM SUNG ELECTRONIC  
SAMSUNG ELECTRONICS CO LTD

**PA0** - SamSung Electronics Company, Ltd., Kyungki-do [KR]

**IN** - CHOI CHUN-GEUN

**AP** - 1997KR-0024016 19970611; 1997US-0873289 19970611; 1997JP-0169562  
19970611

**PR** - 1996KR-0020847 19960611; 1997KR-0024016 19970611

**IC** - G09G-001/16  
G09G-003/36  
H04N-009/64  
H04N-009/73

**ICAA** - G09G-001/16 [2006-01 A - I R M EP]; H04N-009/73 [2006-01 A - I R M EP]

**ICCA** - G09G-001/16 [2006 C - I R M EP]; H04N-009/73 [2006 C - I R M EP]

**EC** - G09G-001/16T  
H04N-009/73

**ICO** - S09G-204/06  
S09G-290/08

**PCL** - ORIGINAL (O) : 345101000; CROSS-REFERENCE (X) : 345600000  
348E09051

**FI** - H04N9/73 B

**FTM** - 5C066 AA03; 5C066 BA20; 5C066 CA05; 5C066 CA13; 5C066 DD08; 5C066  
EA03; 5C066 EA08; 5C066 EA15; 5C066 EA17; 5C066 EB02; 5C066 ED04;  
5C066 FA02; 5C066 GA01; 5C066 GA22; 5C066 KA12; 5C066 KE01; 5C066  
KE09; 5C066 KE20; 5C066 KM17; 5C066 GA13; 5C066 GA14; 5C066 KD06;  
5C066 KM12

**CT** - (US6025823)  
US3927346; US5619229; US5748171; US5852430

**CT** - (JP10070734)  
[19] Citation as reason for refusal of an application  
JP (A) 1996163582 [JP08163582]  
JP (U) 1990057677 [JP02057677U]  
JP (U) 1990013380 [JP02013380U]  
JP (A) 1996126022 [JP08126022]  
JP (A) 1994261334 [JP06261334]  
JP (A) 1992243392 [JP04243392]

**AB** - (US6025823)  
A color curve control circuit includes: a data input unit, for entering values for

changing colors on the screen of a monitor; a microcomputer, for processing color signals corresponding to color temperature using stored color temperature data and a color curve control program, in order to change the colors on the screen according to signals generated by the data input unit, and for generating color gain signals and color cutoff signals; and a digital to analog converter for converting the digital color gain and cutoff signals from the microcomputer into analog signals.

**OBJ - (US6025823)**

The present invention relates to a color curve control circuit and method. Specifically, this invention easily adjusts the colors as desired by the user, on the screen of a monitor using color gain and cutoff signals corresponding to the color temperature.

**ADB - (US6025823)**

Therefore, it is necessary to define the desirable three primary colors of light, R, G, and B, and standard white.

An object of the present invention is to improve a color function which enables users to adjust colors to the state they want in a monitor, by adjusting colors displayed on a monitor using the R, G, and B gain and cutoff signals which change according to the color curve in color space.

To achieve these and other advantages, and in accordance with the purpose of the present invention as embodied and broadly described, a color curve control circuit utilizes a data input unit, for entering values to adjust colors on the screen of a monitor, a microcomputer, for processing color signals corresponding to color temperature using stored color temperature data according to a color curve control program in order to change the colors on the screen according to signals generated by the data input unit, and for generating color gain signals and color cutoff signals, and a digital to analog converter for converting the digital color gain and cutoff signals from the microcomputer into analog signals.

The objectives and other advantages of the invention will be realized and attained by the structure as illustrated in the written description and claims hereof, as well as the appended drawings.

For this, monitor manufacturers provide several limited colors, or values, which are most frequently utilized by the users.

Therefore, it is difficult for the users to adjust colors to particular values, and it takes much time.

It is also a problem that the users cannot utilize a color adjustment function even though the monitor has this function.

**ICLM - (US6025823)**

1. A color curve control circuit comprising:

a data input unit, for entering values to change the colors on the screen of a video monitor;

a microcomputer, for processing color signals corresponding to color temperature using stored color temperature values and a color curve control program in order to change the colors on the screen according to signals received by the data input unit, and for generating digital color gain signals and digital color cutoff signals; and

a digital to analog converter for converting the digital color gain signals and the digital cutoff signals from the microcomputer into analog gain signals and analog cutoff signals.


5. A color curve control circuit comprising:

a data input unit for entering temperature information;  
a microcomputer for generating digital red, green and blue video gain signals and digital red, green and blue video cutoff signals by converting the temperature information into a digital signal, and processing color signals corresponding to the temperature information using stored color temperature data and a color curve control program;  
a digital to analog converter for converting the digital red, green and blue video gain signals and the digital red, green and blue video cutoff signals from the microcomputer into analog red, green and blue video gain signals and analog red, green and blue video cutoff signals;  
a first amplifier for generating amplified red, green and blue video signals by receiving red, green and blue video color signals from a computer and amplifying said red, green and blue video color signals in response to said analog red, green and blue video gain signals; and  
a second amplifier for generating amplified red, green and blue video display signals, for display on a color monitor, by receiving the amplified red, green and blue video signals generated by said first amplifier and amplifying said amplified red, green and blue video signals in response to said analog red, green and blue video cutoff signals.

UP - 2001-08

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1/1 CRXX- ©CLAIMS/RRX

PN -  6,025,823 A 20000215 [US6025823]

PA - Samsung Electronics Co Ltd KR

ACT - 20020208 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20020514

REISSUE REQUEST NUMBER: 10/067758

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2673

Reissue Patent Number:

Search statement 2

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6025823

February 15, 2000

Color curve control circuit and method

REISSUE: February 8, 2002 - Reissue Application filed Ex. Gp.: 2673; Re. S.N.  
10/067,758 (O.G. May 14, 2002)

APPL-NO: 873289 (08)

FILED-DATE: June 11, 1997

GRANTED-DATE: February 15, 2000

CORE TERMS: sub, color, cutoff, video, user, color temperature, curve,  
microcomputer, monitor, transmitted ...

**LEXIS-NEXIS**

**Library: PATENTS**

**File: ALL**

6,025,823.OR 6025823

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: CASES**

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6,025,823 OR 6025823

**LEXIS-NEXIS**  
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**File: JNLS**

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6,025,823 OR 6025823

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**File: CURNWS**

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Patent Search 6025823 5/1/2007

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